Mikas Middle East **FZE**

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Machinery for Industrial Kinetics, Access, and Services

mikas.ae





Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	500 KVA	550 KVA
	400 KW	440 KW
380-415 V, 3 ph, 60 Hz, 1800 rpm	500 KVA	563 KVA
	400 KW	450 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	Cummin	S		
Engine Model	A C KTA19-G	33		
Governing Type	Electron	KTA19-G3 Electronic 6		
Number of Cylinders	6			
Cylinder Arrangement	Vertical in	line		
Bore and Stroke mm	159 X 15	9		
Displacement / Cubic Capacity litres	19.0			
Induction System	Turbocharged and air to	air charge cooled		
Cycle	4 stroke	4 stroke		
Combustion System	Direct Inject	Direct Injection 13.9:1		
Compression Ratio	13.9:1			
Rotation		Anti-clockwise, viewed on flywheel		
Cooling System	Water - cooled			
Frequency and Engine Speed	50Hz & 1500rpm	60Hz & 1800rpm		
Gross Engine Power kW (hp)	451 (605)	495 (664)		
Fuel Consumption @ 50% load L/hr	51.8	52		
@ 75% load L/hr	74.7	78		
@ 100% load L/hr	98.8	102		
Total Lubrication System Capacity litres	50	62		
Total Coolant Capacity litres	111.7	58		
Exhaust Temperature: °C	532	550		

ALTERNATOR DATA			
Ī	Make	l	JPS / Leroy Somer
	Model	UPS354	D/LSA (TAL) 047C
	No. of bear	ings	1
	Insulation of	class	Н
	Wires		6/12
	Ingress Pro	tection	IP23
	Excitation 9	System	SHUNT
	Winding Pi	tch	2/3

Overspeed	2250 mn ⁻¹
Voltage Regulation (steady)	± 1%

Make	Deep Sea
Model	4000 SERIES

The DSE 40 00 Series is an Auto Start Control for single genset applications. It includes a LCD display which clearly shows the status of engine all the times. This module can either programmed using the front panel or by using the DSE configuration PC suite software.

Metering and Alarm indications:

- · Generator frequency
- · Underspeed, Overspeed
- . Generator volts (L-L, L-N)
- · Generator current
- · Engine oil pressure · Engine coolant temperature
- · Hours run counter
- · Battery volts
- · Fail to start/stop
- · Emergency stop
- · Failed to reach loading voltage/frequency
- · Charge fail
- · Low DC voltage
- · CAN diagnostics and CAN fail/error

Image for illustrative purposes only







563 KVA 3 PHASE

1. ENGINE

Cummins four stroke heavy duty high performance industrial type diesel engine.

50 Hz

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
- Two Cartridge type fuel filters.
- Full flow lube oil filter.

All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

EXHAUST SYSTEM

Exhaust gas flow Maximum allowable back pressure

98 m^3/min 6.80 (kPa)

5. CIRCUT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- · Heavy coat of antitracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±1%. Nominal adjustment by means of a trim pot incorporated on the AVR

MOUNTING ARRANGEMENT

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.2 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.3 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

12. QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

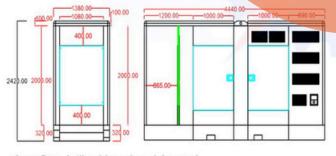
WARRANTY

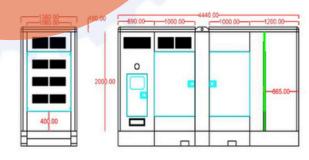
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours, Warranty of the equipment is in line with manufacturers warranty terms & conditions. nty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.

STANDARD GENERATOR DIMENSION AND WEIGHT

Silent Type (with Soundproof Canopy)





Open Type (without Soundproof Canopy)

